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PATENT 2460-1-001

Please amend the claims as follows:

1. (Twice Amended) An isolated dermal sheath tissue and/or a cell derived therefrom comprising at least one selected gene, or functional fragment thereof, and wherein said at least one selected gene, or functional fragment thereof can be delivered to a target site when said dermal sheath tissue is part of a gene therapy vehicle.

2. (Twice Amended) A gene therapy vehicle for delivering at least one selected gene, or functional fragment thereof, to a target site wherein said gene therapy vehicle comprises isolated dermal sheath tissue and/or a cell derived therefrom.

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- 3. (Twice Amended) The dermal sheath tissue or a cell derived therefrom of Claim 1 wherein said dermal sheath tissue or cell is derived from the lower portion of a hair follicle.
- 4. (Twice Amended) The dermal sheath tissue or a cell derived therefrom of Claim 3 wherein said dermal sheath tissue or cell is derived from a lower third of said hair follicle.
- 5. (Twice Amended) The dermal sheath tissue or a cell derived therefrom of Claim 3 wherein said dermal sheath tissue or said cell is derived from a segment or ring of a combination of follicle/tissue cells.
- 6. (Twice Amended) A gene therapy vehicle according to Claim 2 which is engineered by recombinant techniques so as to include at least one insertion site into which at least one selected gene can be placed.
- 7. (Twice Amended) A gene therapy vehicle according to Claim 6 wherein said selected gene is inserted into said gene therapy vehicle so that the expression of said selected gene results in the provision of the corresponding protein product.

(Twice Amended) A gene therapy vehicle according to Claim 2 wherein said selected gene for insertion is inserted in frame with the genome of the gene therapy vehicle so as to provide for correct expression of said selected gene.

- 12. (Twice Amended) A gene therapy vehicle according to Claim 2 further comprising a promoter wherein said selected gene is under the transcriptional control of said promoter.
- 13. (Twice Amended) A gene therapy vehicle according to Claim 12 wherein said promoter is an inducible promoter.
- 14. (Twice Amended) A gene therapy vehicle according to Claim 12 wherein said promoter is a constitutive promoter
- 15. (Twice Amended) A vector comprising the gene therapy vehicle of Claim 2 wherein said vector is further comprises
- (i) at least one insertion site for at least one selected gene, or functional fragment thereof, and
- (ii) other expression control elements for ensuring that once the vector infects or penetrates said tissue and/or cells of said gene therapy vehicle, expression of said selected gene can take place.

17. (Amended) A therapeutic composition according to Claim 16 wherein said composition has anti-bacterial properties.

- 18. (Amended) A therapeutic composition according to Claim 16 wherein said composition has anti-septic properties.
- 19. (Twice Amended) A therapeutic composition according to Claim 16 wherein said composition further comprises growth promoting additives.

A therapeutic composition according to Claim 16 wherein said (Twice Amended) 20. composition further comprises at least one anaesthetic.

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A therapeutic composition according to Claim 16 for topical (Twice Amended) 21. application wherein said therapoutic composition is provided in a suitable carrier solution, gel, cream, or emollient.

- A therapeutic composition according to Claim 16 wherein said 22. (Twice Amended) therapeutic composition comprises a darrier solution as said carrier.
- A therapeutic appliance that comprises a therapeutic 23 (Twice Amended) composition according to Claim 16 wherein said carrier is incorporated and/or embedded therein, and/or attached thereto, a plaster or handage.
- A gene therapy vehicle for use in delivering a selected gene, (Twice Amended) or functional fragment thereof, to a given site wherein said gene therapy vehicle comprises dermal sheath tissue and/or a cell derived therefrom, which tissue and/or cells comprise heterologous genetic material and which, in vivo, said dermal sheath tissue and/or cell differentiate to provide at least one differentiated tissue type.

- A gene therapy vehicle according to Claim 24 which acts as a (Twice Amended) wound healing system.
- A wound healing system comprising a suitable matrix material (Twice Amended) 26. having incorporated and/or embedded therein, and/or attached thereto, a gene therapy vehicle according to Claim 24.

A wound healing system according to Claim 26 wherein said 28. (Twice Amended) matrix material comprises collagenous gels or lattices constructed from reconstituted collagen.



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29. (Twice Amended) A wound healing system according to Claim 28 wherein said matrix material comprises components from an extra cellular matrix.

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31. (Twice Amended) A wound healing system according to Claim 30 for treatment of acute, and/or chronic, and/or minor, and/or severe, wound healing.

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34. (Twice Amended) A wound healing system according to Claim 33 wherein one of said cell types, in addition to said dermal sheath tissue, and/or said cell derived therefrom, comprises dermal papAla tissue.

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36. (Twice Amended) A therapeutic composition according to Claim 34 wherein one of said cell types, in addition to said dermal sheath tissue, and/or said cell derived therefrom, comprises dermal papilla tissue.

REMARKS

The Applicants have amended Claims 1-7, 11-15, 17-26, 28, 29, 31, 34 and 36 to more distinctly claim and particularly point out that which the Applicants regard as their invention. Claims 9 and 10 have been canceled without prejudice. Support for the amendments to the claims can be found throughout the Specification as filed, including in the claims as originally filed. Claims 1-8 and 11-36 remain pending. No new matter has been added. Reconsideration of this Application is respectfully solicited.

Rejections under 35 U.S.C. §101 and §112 second paragraph

The Examiner has rejected Claims 1-5 and 11-14 asserting that they are directed towards non-statutory subject matter. The Examiner has also rejected Claims 1-36 asserting that they are indefinite.